



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,443	12/19/2000	Brian P. Anderson	00-442	4909

7590

08/20/2003

Jeffrey L. Myers
Caterpillar Inc.
Intellectual Property Department, AB6490
100 N.E. Adams Street
Peoria, IL 61629-6490

EXAMINER

TRUONG, LECHI

ART UNIT

PAPER NUMBER

2126

DATE MAILED: 08/20/2003

2

Please find below and/or attached an Office communication concerning this application or proceeding.

8c

Office Action Summary

Application No.

09/740,443

Applicant(s)

ANDERSON, BRIAN P.

Examiner

LeChi Truong

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. Claims 1, 3-7, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Notani et al (US Patent 5,931,900) in view of APA (Admitted Prior Art).

As to claim 1, Notani teaches a first computer based service tool (a first engine 110, col 7, ln 40- 67), a second computer based service tool (a second engine 114, col 7, ln 40-67), workbench (the visual information broker, col 7, ln 40-67), first and second application proxies (adapters 120 and 122, col 7, ln 40-67), binary network object (COM and support multiple data model, col 8, ln 1-45), first and second interfaces (interface 112, 116, col 7, ln 40-67, Browser UI 130/ non-Browser 132, col 8, ln 1- 45/ Fig.5).

Notani does not explicit teaches a computer for based workbench, access to service information in the second computer based service tool through the computer based workbench. However, APA teaches computer software tools, tools ... has been become desirable to link the various software tools to share and exchange information (page 1, ln 11-32).

It would have been obvious to apply the teaching of APA to Notani in order to perform service type operations for certain types of machines.

As to claim 3, Notani does not teach a mobile work machine. However, APA teaches a notebook computer.

It would have been obvious to apply the teaching of APA to Notani in order to provide the service operations with the most complete, the most stable and the most efficient high-quality services.

As to claim 4, Notati teaches the Component Object Model (COM, col 8, ln 15-45).

As to claim 5, Notati teaches a constant portion (the queue adaptation dimension, col 7, ln 1-37), an application interface (the desired source, col 8, ln 1-40).

As to claim 6,7, Notati teaches a respective communication protocol(dynamically loaded specifically designed to interface to particular sources of information, col 4, ln 20-45/ adaptors as appropriate to interface with the source, col 8, ln 1-40), the constant portion is belonged to respective communication protocol so constant portions are the respective constant portion.

As to claim 9, refer to the rejection of claim 1. Further, Notani teaches graphical user interface(a user interface 124, col 7, ln 40-67).

2. Claims **2, 10-27** are rejected under 35 U.S.C. 103(a) as being unpatentable over Notani et al (US Patent 5,931,900) in view of APA (Admitted Prior Art) and further in view of Bullen et al (US. Patent 6,033,226).

As to claim 2, Notani does not teach diagnostic services. However, Bullen teaches diagnostics, testing and expert advice on the tooling operation (col 7, ln 1-22).

It would have been obvious to apply the teaching of Bullen to Notani in order to give the user the ability to access different instructional media.

As to claim 10, Notani teaches graphical user interface (User interface 124, col 40-67), an application container (the local caching proxy server 126, col 7, ln 40-67). Notani does not teach a launch pad, first and second buttons launches a respective one of the first and second

Art Unit: 2126

service tools (main menu, a specific training category, tooling category, tooling operation, col 2, ln 20-35/ col 4, ln 25-50/ model button, various function module, col 7, ln 1-27).

It would have been obvious to apply the teaching of Bullen to Notani in order to give the user the ability to access different instructional media.

As to a system of claim 11, refer to the rejection of claim 1. Further, Notani does not teach diagnostic advisor, service information system. However, Bullen teaches a reference guide, line drawings, video clips of the operation, diagnostics, testing and expert advice on the tooling operation (col 7, ln 1-22).

It would have been obvious to apply the teaching of Bullen to Notani in order to give the user the ability to access different instructional media.

As to claim 12, 13, 14, 15, Notani teaches a third interface, the third application proxy, a fourth interface, fourth application proxy, a fifth interface, a fifth application proxy, a sixth interface, a sixth application proxy (dynamically loaded adapter specifically designed to interface a particular sources, col 4, ln 20-34/ adaptor create for it, col 7, ln 1-36/ interface 112, 116, col 7, ln 40-65), each application proxy in the application proxies must have a function interface.

Notani does not teach a computer based electronic technician, a computer based data view, a computer based engine performance, and a computer based reports and feedback. However, Bullen teaches a reference guide, line drawings, video clips of the operation, diagnostics, testing and expert advice on the tooling operation (col 7, ln 1-22).

It would have been obvious to apply the teaching of Bullen to Notani in order to give the user the ability to access different instructional media.

As the method claim 16, refer to the rejection of claim 1. Further, Notani teaches sharing service information (shared inter-domain connectivity plane, col 14, ln 50-67).

As to the method of claim 17, see the rejection of claim 2.

As to the method of claim 18, see the rejection of claim 3.

As to the method of claim 19, see the rejection of claim 4.

As to the method of claim 20, see the rejection of claim 5.

As to the method of claim 21, see the rejection of claim 6.

As to the method of claim 22, see the rejection of claim 7.

As to the method of claim 23, see the rejection of claim 8.

As to the method of claim 24, see the rejection of claim 9.

As to the method of claim 25, see the rejection of claim 10.

As to the method of claim 26, see the rejection of claim 11.

As to the computer program product of claim 27, see the rejection of claim 1.

4. Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

Fax phone: AFTER_FINAL faxes must be signed and sent to: (703) 746-2738, OFFICAL faxes must be signed and send to: (703) 746-7239, NON OFFICIAL faxes should not be signed, please send to: (703) 746-7240

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305 9000.

Application/Control Number: 09/740,443

Page 6

Art Unit: 2126

LeChi Truong

August 5, 2003

A handwritten signature in black ink, appearing to read 'J. Follansbee', written in a cursive style.

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100